In the Claims

This listing of claims will replace all prior versions, and listings, of claims.

Listing of Claims

1. (Currently Amended): A system of order fulfillment, comprising:

a machine executing:

a pre-picking unit picking an order corresponding to a product, receiving information regarding at least a first lot corresponding to the same product having WIP (Work In Process) status from an MES (Manufacturing Execution System), and picking at least [[a]] the first lot corresponding to the same product having WIP status to generate a pre-picked invoice including the order and the first lot, wherein the first lot having WIP status representing the first lot is currently manufactured, and the pre-picking unit further determines whether the first lot having WIP status is picked for another pre-picked invoice, and, if so, not to show the first lot for selection; and

a matching engine to determine whether the first lot has achieved F/G (Finished Goods) status at a first shipping time, and, if so, to automatically generate a first real invoice corresponding to the pre-picked invoice for the order and the first lot.

2. (Original): The system of claim 1 wherein the first lot has a predetermined forecast date to achieve F/G status.

3. (Original): The system of claim 1 wherein the pre-picking unit further defines a shipment attribute comprising a Customs declaration for the pre-picked invoice.

4. (Original): The system of claim 1 wherein the matching engine further sends an email notification when the first real invoice is generated.

5. (Cancelled).

6. (Original): The system of claim 1 wherein if the first lot having WIP status is split into a plurality of child lots having WIP status, the matching engine determines whether the child lots of the first lot have achieved F/G status at the first shipping time.

7. (Original): The system of claim 1 wherein the pre-picking unit further picks a second lot corresponding to the product having WIP status for the pre-picked invoice, and the matching engine further generates a new pre-picked invoice if the second lot has not yet achieved F/G status at the first shipping time.

8. (Original): The system of claim 7 wherein the matching engine further determines whether the second lot has achieved F/G status at a second shipping time, and, if so, generates a second real invoice corresponding to the new pre-picked invoice for the order and the second lot.

9. (Original): The system of claim 8 wherein the matching engine further closes the new pre-picked invoice if the second real invoice has been generated.

10. (Currently Amended): A method of order fulfillment for an IC (Integrated Circuit) foundry, for use in a computer, comprising the steps of:

picking an order corresponding to an IC (Integrated Circuit) product by the computer;

receiving information regarding at least a first lot corresponding to the same IC product having WIP (Work In Process) status from an MES (Manufacturing Execution System) by the computer, wherein the first lot having WIP status representing the first lot is currently manufactured;

determining whether the first lot having WIP status is picked for another pre-picked invoice by the computer, and, if so, not to show the first lot for selection;

picking the first lot corresponding to the same IC product having WIP status by the computer;

generating a pre-picked invoice including the order and the first lot by the computer;

determining whether the first lot has achieved F/G (Finished Goods) status at a first shipping time by the computer; and

automatically generating a first real invoice corresponding to the pre-picked invoice for the order and the first lot if the first lot has achieved F/G status by the computer.

11. (Original): The method of claim 10 wherein the first lot has a predetermined forecast date to achieve F/G status.

12. (Previously Presented): The method of claim 10 further comprising defining a shipment attribute comprising a Customs declaration for the pre-picked invoice by the computer.

13. (Previously Presented): The method of claim 10 further comprising sending an email notification by the computer when the first real invoice is generated.

14. (Cancelled).

15. (Previously Presented): The method of claim 10 further comprising determining whether a plurality of child lots split from the first lot having WIP status have achieved F/G status at the first shipping time by the computer.

16. (Previously Presented): The method of claim 10 further comprising picking a second lot corresponding to the IC product having WIP status for the pre-picked invoice by the computer, and generating a new pre-picked invoice by the computer if the second lot has not yet achieved F/G status at the first shipping time.

17. (Previously Presented): The method of claim 16 further comprising determining whether the second lot has achieved F/G status at a second shipping time by the computer, and, if so, generating a second real invoice corresponding to the new pre-picked invoice for the order and the second lot by the computer.

18. (Previously Presented): The method of claim 17 further comprising closing the new pre-picked invoice by the computer if the second real invoice has been generated.

19. (Currently Amended): A machine-readable storage medium storing a computer program which when executed causes a computer to perform a method of order fulfillment, comprising the steps of:

picking an order corresponding to a product by the computer;

receiving information regarding at least a first lot corresponding to the same product having WIP (Work In Process) status from an MES (Manufacturing Execution System) by the computer, wherein the first lot having WIP status representing the first lot is currently manufactured;

determining whether the first lot having WIP status has been picked for another pre-picked invoice, and, if, so, not to show the first lot for selection;

picking the first lot corresponding to the same product having WIP status by the computer;

generating a pre-picked invoice including the order and the first lot;

determining whether the first lot has achieved F/G (Finished Goods) status at a first shipping time; and

automatically generating a first real invoice corresponding to the pre-picked invoice for the order and the first lot if the first lot has achieved F/G status.

20. (Original): The storage medium of claim 19 wherein the first lot has a predetermined forecast date to achieve F/G status.

21. (Original): The storage medium of claim 19 further comprising defining a shipment attribute comprising a Customs declaration for the pre-picked invoice.

22. (Original): The storage medium of claim 19 further comprising sending email notification when the first real invoice is generated.

23. (Cancelled).

24. (Original): The storage medium of claim 19 further comprising determining whether a plurality of child lots split from the first lot having WIP status have achieved F/G status at the first shipping time.

25. (Original): The storage medium of claim 19 further comprising picking a second lot corresponding to the product having WIP status for the pre-picked invoice, and, if so, generating a new pre-picked invoice.

26. (Original): The storage medium of claim 25 further comprising determining whether the second lot has achieved F/G status at a second shipping time, and, if so, generating a second real invoice corresponding to the new pre-picked invoice for the order and the second lot.

27. (Original): The storage medium of claim 26 further comprising closing the new pre-picked invoice if the second real invoice has been generated.

28. (Currently Amended): A method of order fulfillment for use in a computer, comprising the steps of:

picking an order by the computer;

receiving information regarding at least a first lot having WIP (Work In Process) status from an MES (Manufacturing Execution System) by the computer, wherein the first lot having WIP status representing the first lot is currently manufactured;

determining whether the first lot having WIP status is picked for another pre-picked invoice by the computer, and, if so, not to show the first lot for selection;

picking the first lot having WIP status by the computer;

generating a pre-picked invoice including the order and the first lot by the computer;

determining whether the first lot has achieved F/G status at a first shipping time by the computer; and

automatically generating a first real invoice corresponding to the pre-picked invoice for the order and the first lot if the first lot has achieved F/G (Finished Goods) status by the computer.

29. (Original): The method of claim 28 wherein the first lot has a predetermined forecast date to achieve F/G status.

30. (Previously Presented): The method of claim 28 further comprising defining a shipment attribute comprising a Customs declaration for the pre-picked invoice by the computer.

31. (Previously Presented): The method of claim 28 further comprising sending an email notification by the computer when the first real invoice is generated.

32. (Cancelled).

33. (Previously Presented): The method of claim 28 further comprising determining whether a plurality of child lots split from the first lot having WIP status have achieved F/G status at the first shipping time by the computer.

34. (Previously Presented): The method of claim 28 further comprising picking a second lot corresponding to the IC product having WIP status for the pre-picked invoice by the computer, and generating a new pre-picked invoice by the computer if the second lot has not yet achieved F/G status at the first shipping time.

35. (Previously Presented): The method of claim 34 further comprising determining whether the second lot has achieved F/G status at a second shipping time by the computer, and generating a second real invoice corresponding to the new pre-picked invoice for the order and the second lot by the computer if the second lot has achieved F/G status.

36. (Previously Presented): The method of claim 35 further comprising closing the new pre-picked invoice by the computer if the second real invoice has been generated.